

ABSTRACT

The use of electricity in human daily life is very influential at this time so that the development of the times accelerates the development in its use so that a system or tool that can protect and monitor the amount of electricity in the system is needed to facilitate the reading and monitoring of parameters in electricity to the time in reading quantities electricity both when the system process is operating and when interference occurs. The device to be designed will use electric sensors that can read electrical parameters such as voltage and current and can be displayed on media that can display the sensor readings, for this reason Arardino microcontrollers can also control and recap data that is read so the system can be as accurate as possible in the reading and monitoring system. So the design of the device can protect the interference current more than the induction motor current used by 0.98 A in 1 second, from interference either overcurrent or overvoltage by using a relay as a switch that can cut off the system work process from the source to the load used and read the amount of current that is in the appropriate time of reading.

Keywords: Protection System, Delphi7 Monitoring, Sensors, 3 Phase Load, Arduino uno.